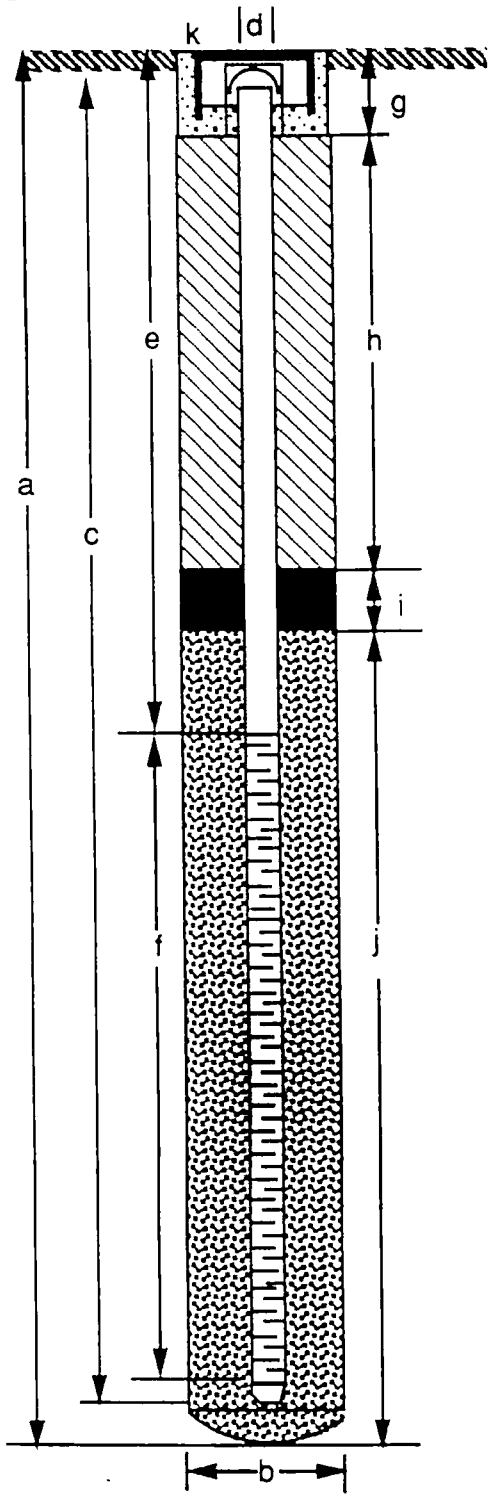
EXCELTECH

MONITORING WELL DETAIL

Project Number	3-30055-32	Boring/Well No.	MW-18
Project Name	Ultramar Station No. 700	Top of Casing Elev.	108.35
County	Sonoma	Ground Surface Elev.	NA
Well Permit No.	91-0183-HMW	Datum	Mean Sea Level



EXPLORATORY BORING

a. Total depth: 43 ft.

b. Diameter: 8 in.

Drilling method: Hollow stem auger

WELL CONSTRUCTION

c. Casing length: 40-1/2 ft.

Material: Schedule 40 PVC

d. Diameter: 2 in.

e. Depth to top perforations: 30 ft.

f. Perforated length: 10 1/2 ft.

Perforated interval from 40 1/2 to 30 ft.

Perforation type: Slot

Perforation size: 0.02 in.

g. Surface seal: 3 ft.

Seal material: Concrete

h. Backfill: 21 1/2 ft.

Backfill material: Cement

i. Seal: 3 1/2 ft.

Seal material: Bentonite Pellets

j. Gravel pack: 12 1/2 ft.

Pack material: 2/12 sand

k. Water tight traffic rated vault box

Note: Hole caved 2-1/2 feet, material packed by driller.

BE022562

EXPLORATORY BORING LOG

EXCELTECH

Project Name: Ultramar Station No. 700
7898 Old Redwood Highway
Cotati, California

Project Number: 3-30055-32

Boring No. MW-18

Date Drilled: 7/30/91

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
1			CL	FILL sandy CLAY, brown (10YR 4/3), silt ≈15%, sand ≈35%, moderately plastic, traces of gravel, brick, stiff, damp		
5		28	SC	CLAYEY SAND, yellowish brown (10YR 5/4) SILT 15-20%, CLAY ≈30% thin stringers of poorly graded sands, sandy lean clay, moderately dense moist		0.0
10		25	SP	POORLY-GRADED SAND, brown (10YR 5/3), with pockeds of well-graded sand, medium grained, gravel in well-graded sand subangular, ≤5" diameter, loose, wet		0.0
13			GP	POORLY-GRADED GRAVEL, dark gray (10YR 4/1) =5-10% medium grained sand, subangular ≤1" diameter, loose, wet		
15			CL	SILTY CLAY, dark grayish brown (2.5Y 4/2), silt ≤25%, sand ≤10% increasing sand, stiff, moist		0.0
17		22	SC	CLAYEY SAND, clay ≈30%, silt ≈10% moist, moderately dense		
20		10	CL	CLAY, dark grayish brown (2.5Y 4/2), silt ≈ 30%, sand ≈5%, stiff, moist		0.0

REVIEWED BY R.G./C.E.G. CEG 1262

EXPLORATORY BORING LOG

EXCELTECH

Project Name: Ultramar Station No. 700
7898 Old Redwood Highway
Cotati, California

Project Number: 3-30055-32

Boring No. MW-18
Date Drilled: 7/30/91
Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
22			CL	CLAY, con't		
23						
24						
25						
26	18-1	25	SC/SP	CLAYEY SAND, very dark grayish brown (2.5Y 3/2), fine to medium grained, grades to poorly graded sand, loose, saturated	▽	0.0
27						
28						
29						
30		8	CL	CLAY, very dark grayish brown (2.5Y 4/2), silt 20-30%, sand, 5-10%, soft, saturated		0.0
31						
32				- becomes clayey sand, thin grades back to sandy clay		
33						
34						
35						
36		22	SP	POORLY GRADED SAND, dark gray (5GY 4/1), medium grained, moderatly saturated, dense,		0.0
37						
38				- grades to south west, then 4-6 inch wide alternative beds of poorly graded sand, clayey sand, and lean, sandy clay		
39						
40						
41		30	CH	CLAY, mottled dark gray (5Y 4/1), sand ≈20%, silt ≈20%, trace gravel, very stiff, damp		
42			CL	SILTY CLAY, mottled olive brown (2.5Y 4/3) silt ≈30%, sand ≈5-10%, damp, stiff		0.0

REVIEWED BY R.G./C.E.G. RGP CEG 1262

EXPLORATORY BORING LOG

EXCELTECH

Project Name: Ultramar Station No. 700
7898 Old Redwood Highway
Cotati, California

Project Number: 3-30055-32

Boring No. MW-18

Date Drilled: 7/30/91

Logged By: N. L. Nack

Depth (ft.)	Sample No.	Blows/Foot	Unified Soil Classification	SOIL DESCRIPTION	Water Level	OVM Reading (ppm)
43			17	SILTY CLAY, con't - increasing silt content		0.0
44				Bottom of Boring: 43 feet Groundwater encountered at 25 feet		
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